

| Application No.   | Applicant(s)   |  |
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| 10/624.332  | HEMBREE DAVID R  |  |
| Examiner  | Art Unit   |  |
| Cheung Lee  | 2812   |  |
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| 7. ☐ Examiner's<br>8. ⊠ Examiner's  | Amendment/Comment  Statement of Reasons/for Allowance  |  |
|   | Cheung Lee  ears on the cover sheet wind (OR REMAINS) CLOSED in or other appropriate communication is so and MPEP 1308.  I on 11/13/06.  Inder 35 U.S.C. § 119(a)-(d) or the ender received in Application is so and the ender received in Application of this communication to file of this communication to file of this communication.  Initial Note the attached EXAMENT of this application.  Initial Note of Information of the header according to 37 CF of the header acco | Examiner Cheung Lee  2812  ears on the cover sheet with the correspondence address (OR REMAINS) CLOSED in this application. If not included ) or other appropriate communication will be mailed in due course. THIS (IGHTS. This application is subject to withdrawal from issue at the initiation and MPEP 1308.  I on 11/13/06.  Inder 35 U.S.C. § 119(a)-(d) or (f).  The been received.  The been received in Application No  The communication to file a reply complying with the requirements of this communication.  The communication to file a reply complying with the requirements of this application.  The communication to file a reply complying with the requirements of this application.  The communication to file a reply complying with the requirements of this application.  The communication to file a reply complying with the requirements of this application.  The communication is deficient.  The communication is deficient.  The communication is deficient.  The communication is deficient. |

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#### **DETAILED ACTION**

# Notice to Applicant

Applicant's Amendment and Response to the Office Action mailed on August 7,
 2006 has been entered and made of record.

# Response to Amendment

2. In view of applicant's amendments and arguments filed on November 13, 2006, the rejections of claims 1-6 under 35 U.S.C. 103(a) as stated in the indicated Office Action have been withdrawn.

#### Reason for Allowance

3. Claims 1-6 are allowed.

The following is an examiner's statement of reasons for allowance: claim 1 recites placing a compliant adhesive-filled gel silicone elastomer between a portion of an upper surface of the semiconductor die and a portion of a lower surface of the heat sink cap, the heat sink cap surrounding the semiconductor die, the heat sink cap having a side wall having a hole therein. Claim 3 recites positioning a compliant adhesive-filled gel silicone elastomer between the semiconductor die and the cap, the cap surrounding the semiconductor die, the heat sink cap having a side wall having a hole therein.

Claim 5 recites providing a compliant adhesive-filled gel silicone elastomer between a portion of an upper surface of the semiconductor die and a portion of a lower surface of the heat sink cap for engaging the semiconductor die and heat sink cap in compliant

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removable adhesion for abutting the edge of the heat sink cap to the substrate, the heat sink cap surrounding the semiconductor die, the heat sink cap having a side wall having a hole therein. These features in combination with the other elements of the claim are neither disclosed nor suggested by the prior art of record.

Claims 2, 4 and 6 variously depend from claim 1, 3 or 5, so they are allowed for the same reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheung Lee whose telephone number is 571-272-5977. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cheung Lee

February 12, 2007

PRIMARY EXAMINER